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Nikon DATA BACK

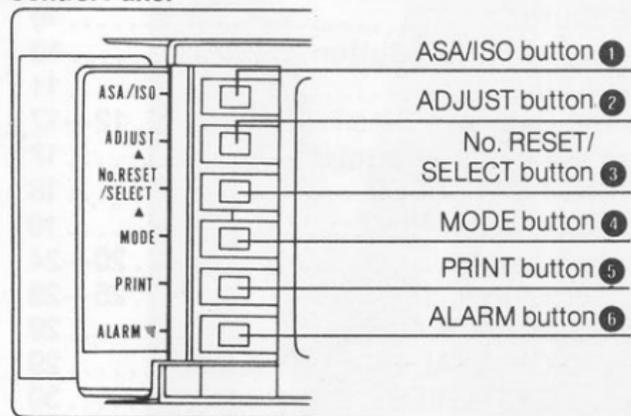
MF14

botkus.us

Instruction Manual

NOMENCLATURE

Control Panel



⑦ LCD imprinting data

Time indicator colon ⑩

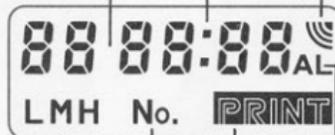
Alarm set
indicator ⑪

⑧ L/M/H film
speed indicator

Alarm mode
indicator ⑫

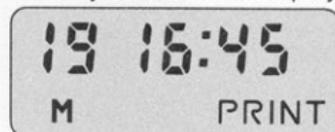
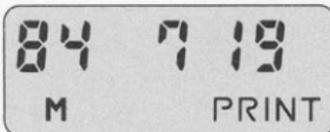
⑨ Picture counting indicator

Data imprint indicator ⑬



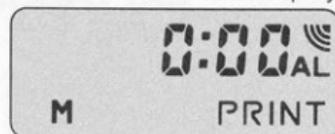
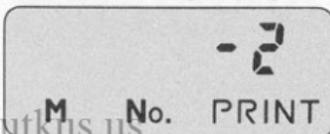
Year/Month/Day display

Day/Hour/Minute display



Picture Counting display

Alarm display



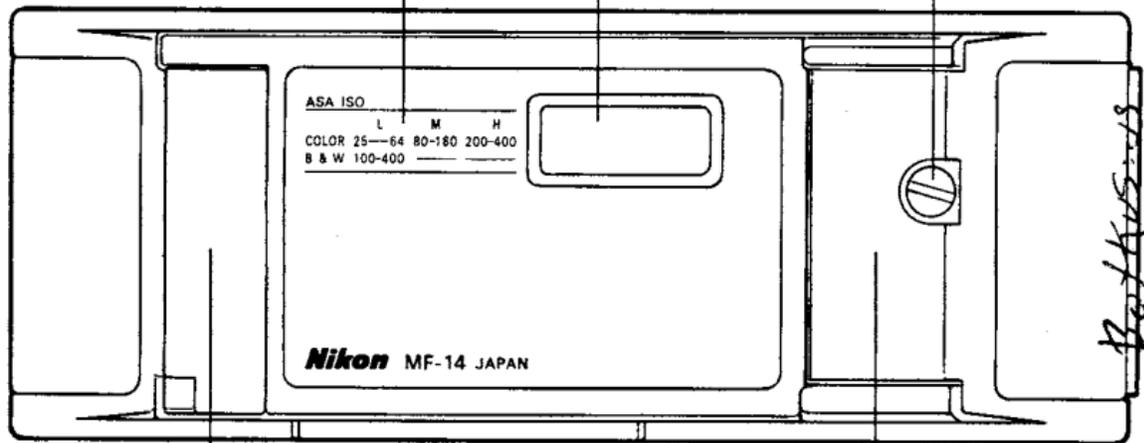
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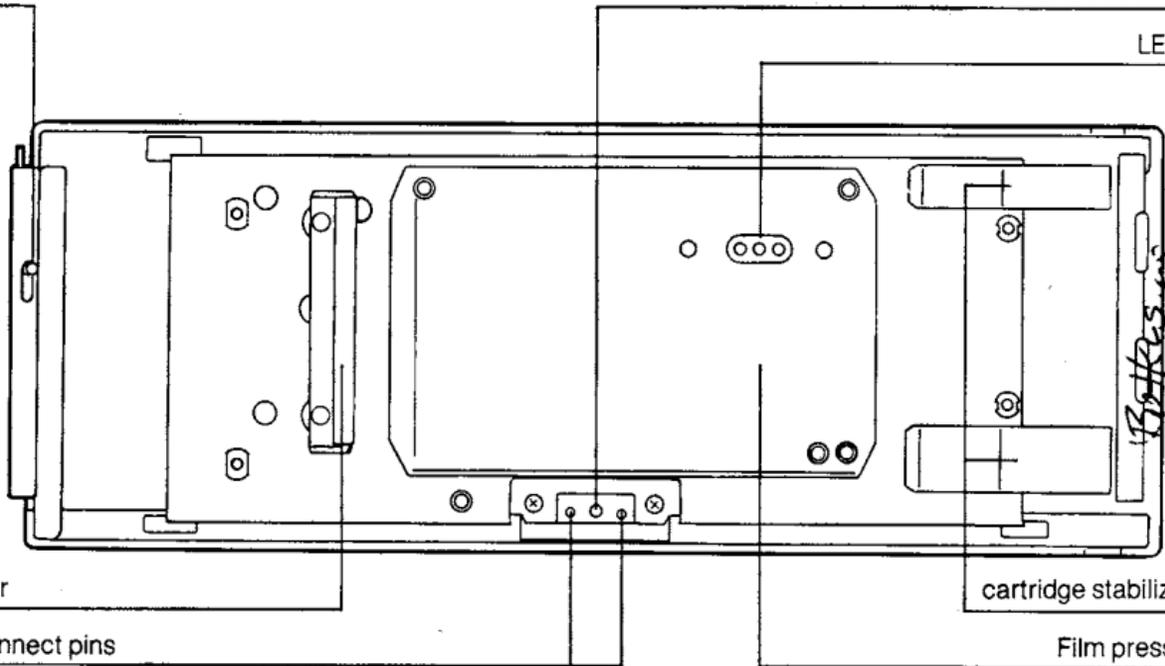
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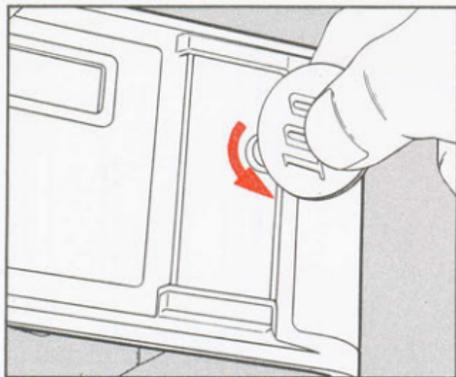
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FOREWORD

The Nikon Data Back MF-14 has a liquid crystal display (LCD) which shows your choice of either Year/Month/Day, Day/Hour/Minute or Picture Counting and imprints this data, if you choose, on your photo for lasting records. By simply replacing the standard back of your Nikon F3 or F3 High-Eyepoint camera with the MF-14, you can record either the date, time, number of frames or any desired number from -2 up to 2000. In addition, the MF-14's built-in clock has an alarm function which rings every day at a previously set time.

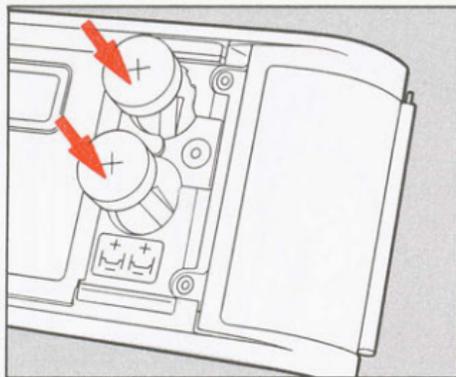
Even though the MF-14 is extremely easy to use, to get the most out of this fine instrument, it is recommended that you familiarize yourself thoroughly with this instruction manual, as well as your camera's instruction manual, before actually using the product.

INSERTING BATTERIES



- 1. Open the battery chamber.**
Using a coin, unscrew the locking screw 17 of the battery chamber lid 18 and detach the lid.

Caution: Keep batteries away from infants and small children. In case a battery is accidentally swallowed, call a doctor immediately as the material inside the batteries can cause serious problems.



- 2. Insert the batteries.**
Before inserting the batteries, gently wipe both sides clean with a soft cloth or tissue. Without touching either the top or bottom, set the two 1.55V SR-44 type silver-oxide batteries in the battery chamber with the "+" signs facing up.

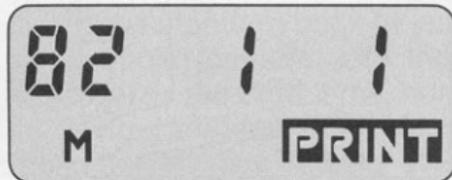
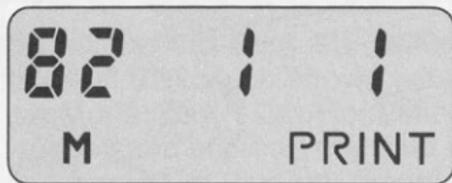
Note:

During this action, the alarm might ring; this, however, is not a malfunction.



- 3. Close the battery chamber.**
Reattach the lid by screwing the locking screw firmly.

—INSERTING BATTERIES—continued—



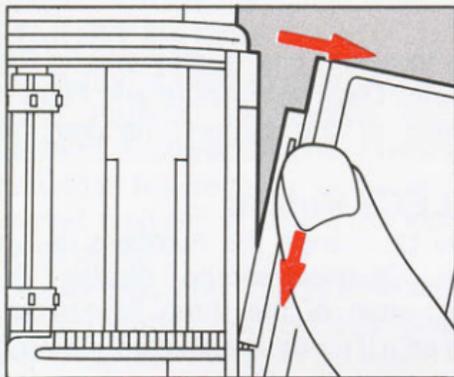
4. Check the display. 82 1 1, "M" **8** and the blinking data imprint indicator **13** (alternately blinking PRINT and **PRINT**) will appear in the LCD display.



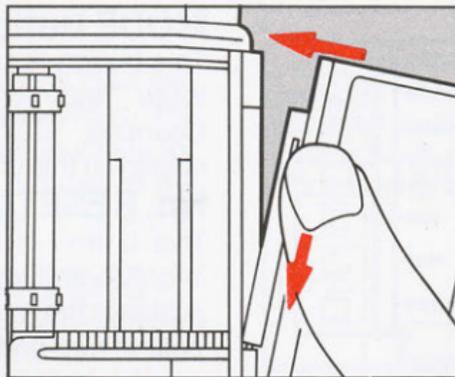
Note:

- 1) If the above display data does not appear after several seconds, check that the batteries are set properly and the battery chamber lid is attached correctly.
- 2) When the batteries are inserted, the MF-14's built-in clock starts working as of 0:00, January 1, 1982.

ATTACHING THE DATA BACK



- 1. Detach the camera back.**
Push the locking catch connected to the hinge on the camera back to detach the back.

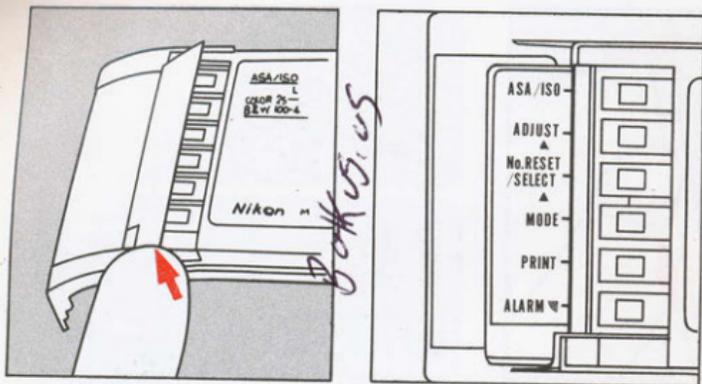


- 2. Attach the data back.**
Attach the MF-14 to the camera by first pushing the corresponding locking catch 19 on the MF-14's hinge, then simply fitting the MF-14 into place. The MF-14 and your camera are now connected.

Note:

In case the data back cannot be either opened or closed, please consult your nearest Nikon dealer.

SETTING THE DATA



Open the cover ⑮ of the control panel by lifting the bottom of the lid with your fingertip. Do not apply unnecessary pressure to the cover. There are six buttons on the panel. Among these buttons, the MODE button ④, No. RESET/SELECT button ③ and ADJUST button ② are used to set data.

MODE Button

This button is used to select one display among the three: Year/Month/Day, Day/Hour/Minute and Picture Counting. Each push of the button changes the display in this order.

No. RESET/SELECT Button

This button is used to change the numbers in the Year/Month/Day or Day/Hour/Minute display. By pushing the button, each of the three figures appear in turn and the adjust mode is activated, allowing you to change the numbers. For example, in the Year/Month/Day display, pushing the button causes the following sequence of displays:

Year/Month/Day display → Year (in adjust mode)
Day (in adjust mode) ← Month (in adjust mode)

In the Day/Hour/Minute display, the sequence is:

Day/Hour/Minute display → Day (in adjust mode)
Minute (in adjust mode) ← Hour (in adjust mode)

With the Picture Counting display, pushing the button resets the number. (For details, refer to page 17.)

ADJUST Button

This button is used to change the numbers in all displays. Pushing the button once advances the numbers displayed by one. Pushing continuously for more than two seconds increases the number to the nearest multiple of five, then increases it in increments of five.

For example, when the year is set at 82, pushing the ADJUST button continuously changes the number first to 83, then to 85, 90, 95, etc.

The numbers in each column change as follows:

Year: 00 → 05 → 10 → ... → 90 → 95

Month: 1 → 5 → 10

Day: 1 → 5 → 10 → ... → 25 → 30

Hour: 0 → 5 → 10 → 15 → 20

Minute: 00 → 5 → 10 → ... → 50 → 55

Picture Counting:

-2 → -1 → 0 → 5 → ... → 1990 → 1995 → 2000

Note:

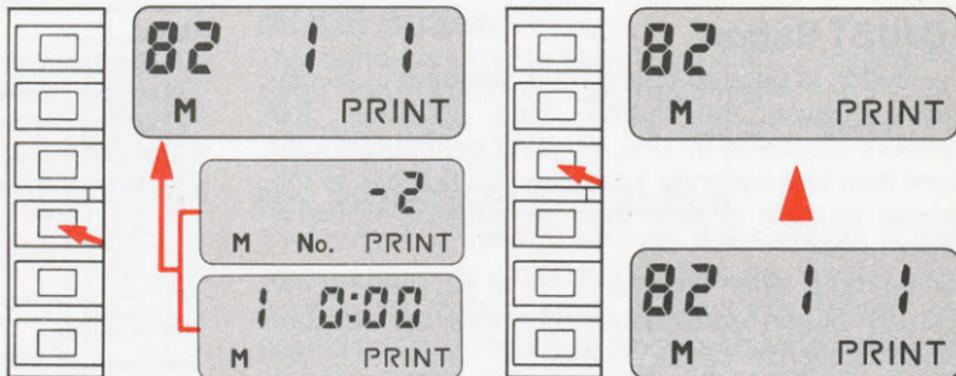
- 1) In the Year/Month/Day and Day/Hour/Minute displays, the numbers change in rotation. However, in the Picture Counting display, the numbers stop at 2000.
- 2) The smallest number for the year, hour and minute is 0; for the month and day, the smallest number is 1.

SETTING THE DATA—continued

Adjusting Date and Time

As an example, use 16:45, July 19, 1984.

Although you may adjust either date or time first, we will adjust the date first here.

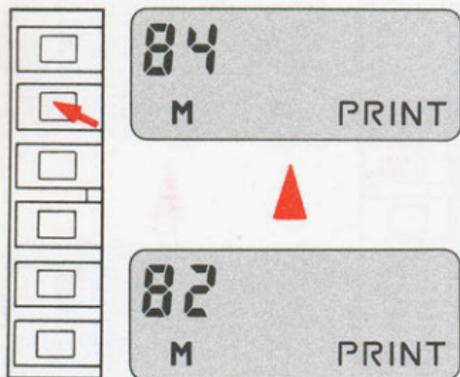


1. Make sure that the display shows Year/Month/Day.

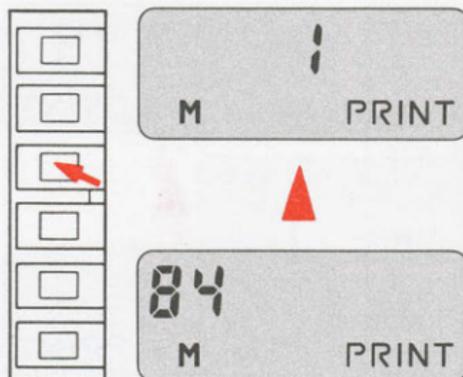
If it shows Day/Hour/Minute (differentiated by a blinking colon ⑩ in the display) or Picture Counting (with "No." ⑨ lettered on the bottom of the display), change the display by pushing the MODE button.

2. Set the year.

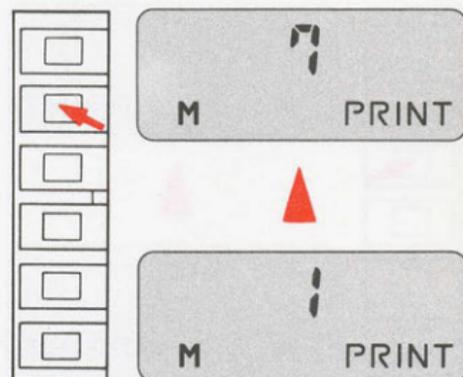
Push the No. RESET/SELECT button to activate the ADJUST mode for the year.



Set the year to "84" by pushing the ADJUST button.

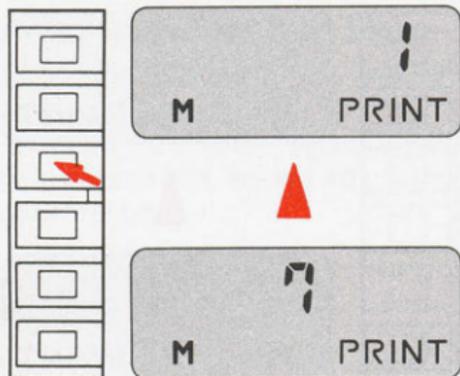


3. Set the month. Push the No. RESET/SELECT button again to activate the ADJUST mode for the month.

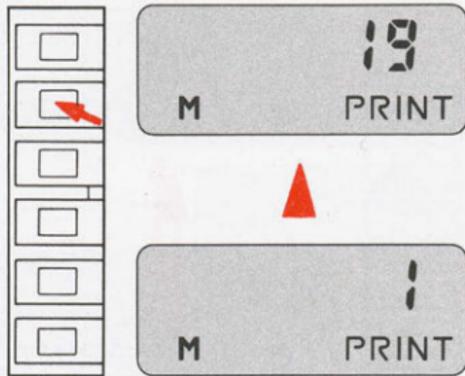


Set the month to "7" (for July) by pushing the ADJUST button.

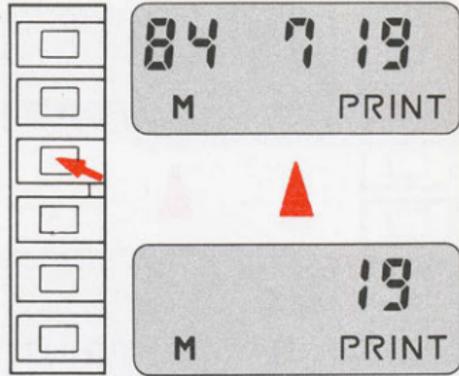
SETTING THE DATA—continued



4. Set the day. Push the No. RESET/SELECT button to activate the ADJUST mode for the day.

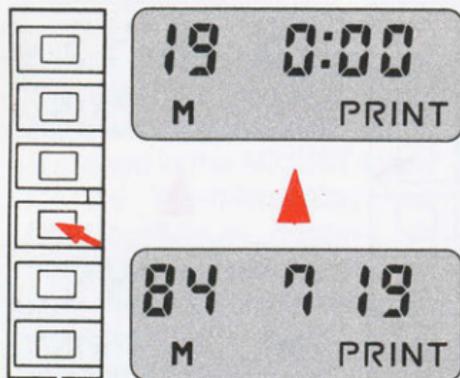


Push the ADJUST button to set the day at "19."



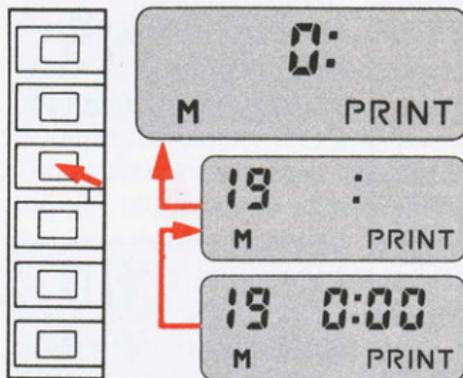
5. Push the No. RESET/SELECT button to cancel the ADJUST mode.

The display will now read: **84 7 19**
(for July 19, 1984).



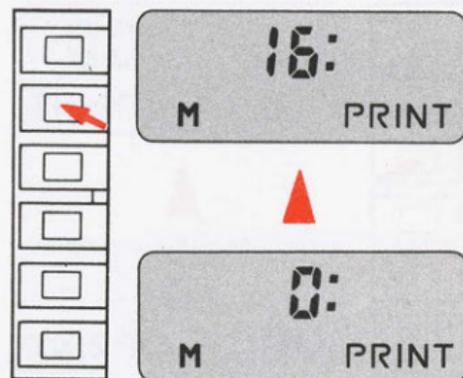
6. Change the display to Day/ Hour/Minute.

Push the MODE button to switch the display to Day/Hour/Minute. Note that the day set previously ("19") appears in the display.



7. Set the hour.

Push the No. RESET/SELECT button to activate the ADJUST mode for the day. Because the day is already set in this example, push the button again to activate the ADJUST mode for the hour.

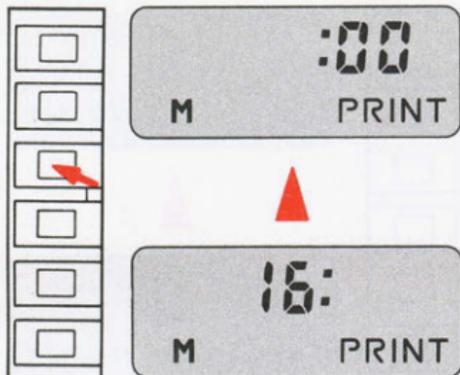


Set the hour to "16"* by pushing the ADJUST button.

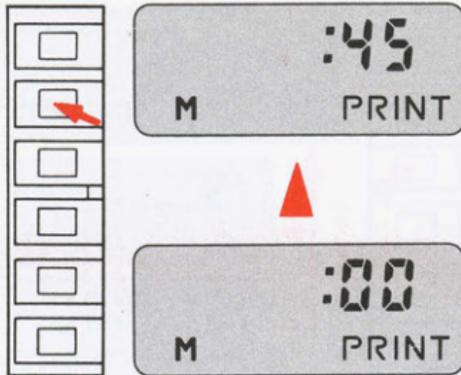
*The MF-14's built-in clock is a 24-hour type: 4:45 is a.m., and 16:45 is 4:45 p.m.

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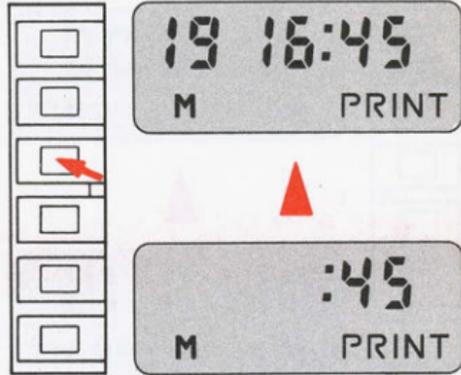
SETTING THE DATA—continued



- 8. Set the minute.** Push the No. RESET/SELECT button to activate the ADJUST mode for the minute.



Push the ADJUST button to set the minute to "45."



- 9. Push the No. RESET/SELECT button to cancel the ADJUST mode.**

The display will now read **19 16:45** (for the 19th, 16:45).

Setting the precise time

The MF-14's built-in clock stops when the ADJUST button is pushed in the ADJUST mode for the Year/Month/Day and Day/Hour/Minute displays. In the Day/Hour/Minute display, the colon stops blinking to show that the clock stops working.

To set the time to the precise second, advance the time one minute ahead of actual time. When the actual time coincides precisely with the time set (i.e., at the tone of a radio/TV program), push the No. RESET/SELECT button to complete the time setting.

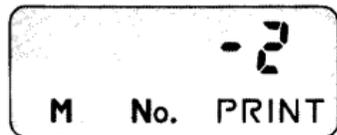
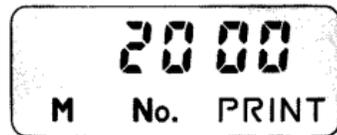
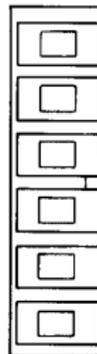
Setting the PictureCounter

"No." appearing on the bottom of the display indicates the Picture Counting display.

The additive type picture counter of the MF-14 is reset to -2 every time the data back is opened, and the number in the display increases every time the shutter is released* whether imprinting occurs or not.

Resetting the number when the data back is opened is also possible by pushing the No. RESET/SELECT button.

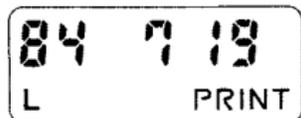
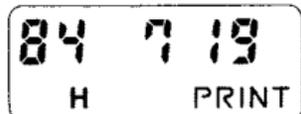
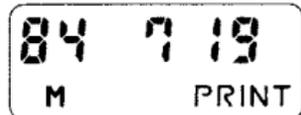
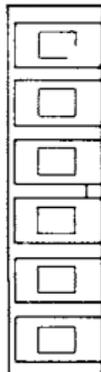
To imprint any numbers from -2 to 2000, push the ADJUST button. Whenever the data back is opened or closed, number adjustment is possible. Note that the number in the Picture Counting display, unlike the numbers in the other displays which progress in rotation, stops at 2000 even if you continue to push the ADJUST button. To



return to -2 after reaching 2000, just push the No. RESET/SELECT button or open the data back.

*The number on the camera's frame counter will, on the other hand, increase every time the film advance lever is stroked.

ADJUSTING FILM SPEED



Each time the ASA/ISO button ① is pushed, either "M," "H" or "L" appears on the bottom of the display in that order. Check the table ⑭ to the left of the display for which letter is appropriate for the film in use and push the button until the correct letter appears.

Note:

- 1) Do not use films with ASA/ISO speeds not covered by the table as data cannot be imprinted properly.
- 2) When using special film or using techniques to increase or decrease image density, make test shots first.

OPTIONAL DATA IMPRINTING



84 7 19
M PRINT

84 7 19
M **PRINT**

"PRINT" blinks during imprinting

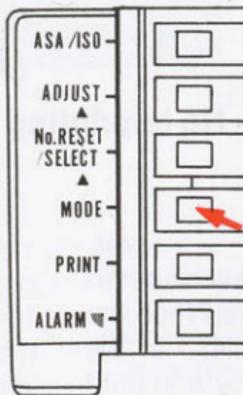
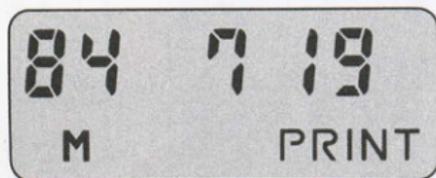
84 7 19
M *butkus.us*

No imprinting

Pushing the PRINT button ⑤ consecutively determines imprinting and no imprinting in turn. When the batteries are inserted, the blinking "PRINT" in the display shows data will be imprinted. If data imprint is not necessary, push the PRINT button and the blinking "PRINT" will disappear.

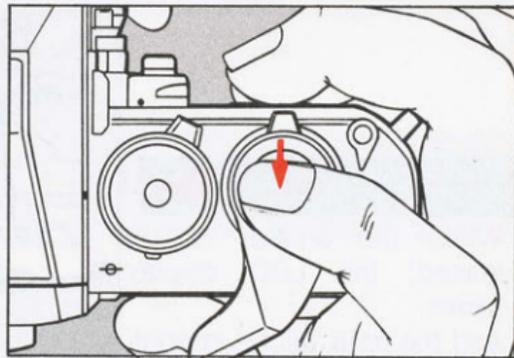
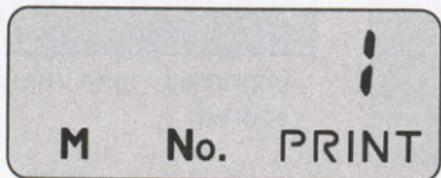
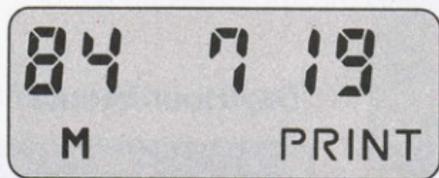
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IMPRINTING DATA



1. Make sure the blinking data imprint indicator is shown in the display.

2. Choose the type of data required for recording—Year/Month/Day, Day/Hour/Minute or Picture Counting—by pushing the MODE button.



3. Take a picture.

—IMPRINTING DATA—continued

The film speed indicator, data imprint indicator, picture counting indicator and the colon indicating time are not imprinted.

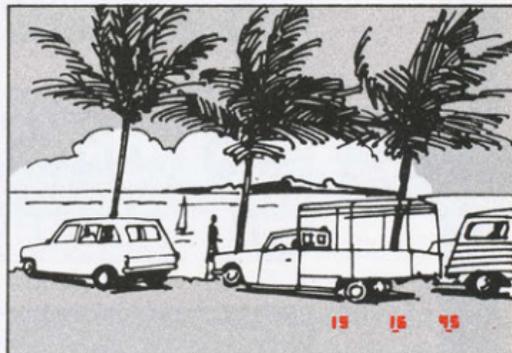
Year/Month/Day



▶ When the shutter is released, the LCD display blinks.

And the data will be imprinted at the lower right hand-corner of the frame.

Day/Hour/Minute



Imprinted time data is under-scored.

Picture Counting



LCD's

84 7 19
M PRINT

19 16:45
M PRINT

!
M No. PRINT

Actual imprint data for each of the three modes.

84 7 19

19 16 45

!

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IMPRINTING DATA—continued

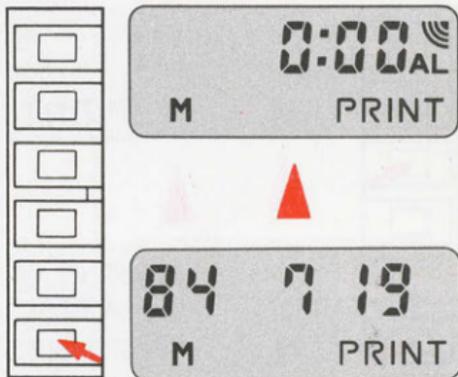
Note:

- 1) When the camera's backup mechanical release lever is used to release the shutter, data is not imprinted and the MF-14's frame counter does not operate.
- 2) Do not attempt to imprint figures in the ADJUST mode. Figures other than those appearing in the display will be imprinted.
- 3) Do not release the shutter immediately after the batteries are inserted. Wait for about 10 seconds.
- 4) Imprinted data might be difficult to read against the following:
 - a. White or bright background
 - b. Red coloration
 - c. Fine background such as grass or leaves
- 5) Do not release the shutter with pressure on the film advance lever nor release the shutter before the shutter release button is completely back to the normal position. These will cause an incorrect frame count of the MF-14 and/or multiple exposure.
- 6) For a multiple exposure picture, imprint the data on the first exposure only; then cancel imprinting by pushing the PRINT button once, and make subsequent exposures. For information about resetting the MF-14's frame counter after multiple exposures, refer to page 17.

ALARM FUNCTION

The MF-14's built-in clock has an alarm function. When the batteries are inserted, the alarm is automatically set at 0:00 but not activated. Once it is set and activated, the alarm will ring every day at the time set unless you reset the time or cancel the alarm. To activate the alarm, push the ALARM button ⑥. The alarm set indicator ⑪ in the display (AL) confirms the alarm is activated. To cancel, push the ALARM button.

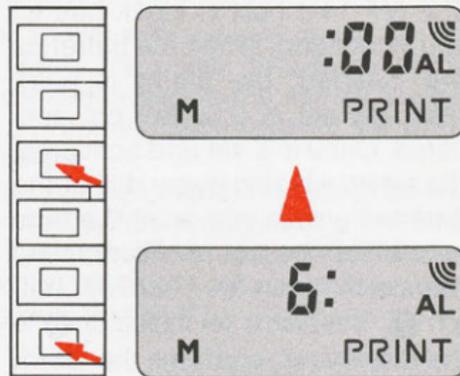
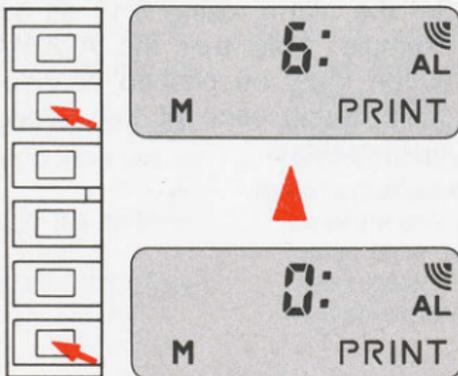
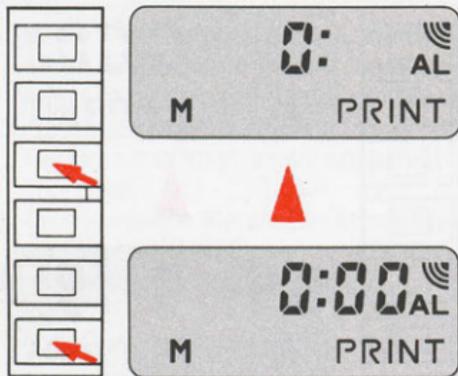
Set the alarm, using 6:15 as an example. Note that the ALARM button must be pushed continuously during each of the following operations.



1. Push the ALARM button to activate the alarm mode.

Push this button and the display for alarm will appear with the alarm mode indicator ("AL") ⑪, regardless of the previous display.

ALARM FUNCTION —continued



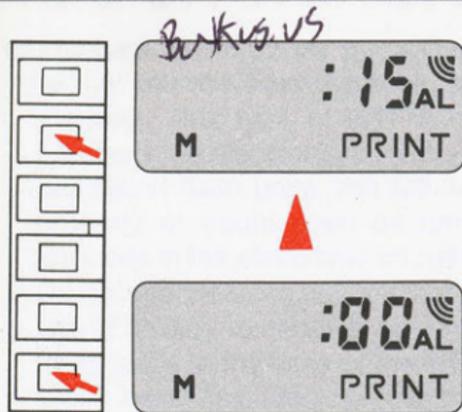
2. Set the hour for alarm.

While pushing the ALARM button, push the No. RESET/SELECT button to activate the ADJUST mode for the hour.

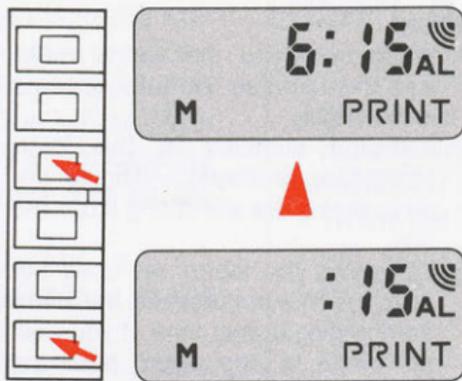
Keep pushing the ALARM button and set the hour to "6" by pushing the ADJUST button.

3. Set the minute for alarm.

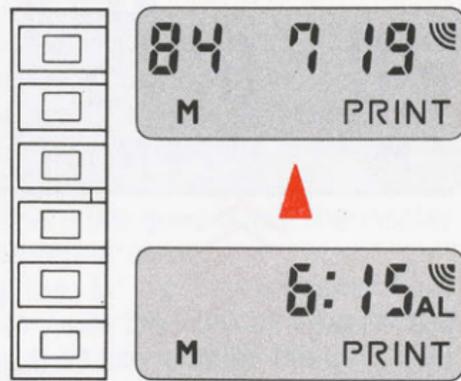
While pushing the ALARM button, push the No. RESET/SELECT button to activate the ADJUST mode for the minute.



Keep pushing the ALARM button and set the minute to "15" by pushing the ADJUST button.



4. Cancel the ADJUST mode. While pushing the ALARM button, push the No. RESET/SELECT button one more time to cancel the ADJUST mode. The display will now read 6:15.



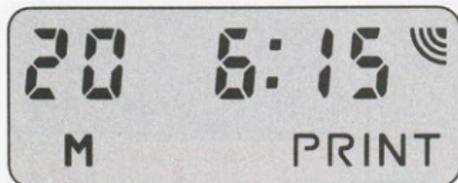
5. Remove your finger from the ALARM button.

The display will change to what was shown just before you pushed the ALARM button. Check that the alarm set indicator (☰) appears in the display. If it does not, push the ALARM button again.

Note:

It might take a few seconds for the display to change to the previous one.

ALARM FUNCTION—continued



6. The alarm will ring at the time you set.

The ring will continue for 20 seconds. If you wish to stop the sound, push the ALARM button. Note that this action does not cancel the alarm set.

Note:

- 1) When activating the alarm, make sure the alarm set indicator appears in the display.
- 2) Adjusting numbers in the Year/Month/Day or Day/Hour/Minute displays during the alarm ring stops the ring.
- 3) Cancelling the alarm set does not reset the time but prevents the alarm from ringing at that time. If you wish the alarm to ring again, push the ALARM button once more.
- 4) When you take pictures with the alarm display and when the data imprinting indicator is blinking (to indicate data imprinting condition), the data of the previous display will be imprinted.
- 5) To use the alarm, it is necessary to set the time first. How to set time is shown on page 12.

- 6) Neither the alarm set indicator (🔔) nor alarm mode indicator "AL" is imprinted.

TIPS ON DATA BACK CARE

1. For flash photography in conjunction with the MF-14, the use of Nikon electronic flash units is recommended. This type of unit is designed to match precisely the electronic circuitry of the MF-14. With non-Nikon flash units, the MF-14 may not operate properly or could even be damaged due to differences in the electronic circuitry.
2. Do not use cleaning fluids to clean the MF-14.
3. Use a blower to remove accumulated dust in the three LEDs at the back of the MF-14.
4. When using the Medical-Nikkor 200mm f/5.6 lens in conjunction with the MF-14, note that two sets of data may be imprinted one above the other if using the imprint functions of both the lens and data back. (With the Medical-Nikkor 120mm f/4 lens, both sets of data can be properly imprinted.)

THE LIQUID CRYSTAL DISPLAY (LCD)

1. At high temperatures (approx. 60°C or above), the whole surface of the display turns black, making it impossible to read the numerical information though not affecting data imprint. When the temperature goes down, the display will return to its normal color.
2. Avoid storing the MF-14 in excessively hot places, such as inside the trunk of a car parked in sunlight; doing so may shorten the LCD's life span.
3. When the temperature drops below freezing, the LCD's response time slows down but data imprint is not affected. When the temperature rises, the display works normally.
4. Although the MF-14's LCD is of the highest quality, contrast may deteriorate and the display information may become difficult to see after six or seven years of normal use. Should this occur, please contact an authorized Nikon dealer or service facility to have the display replaced at a nominal charge.

CHANGING BATTERIES

If the MF-14's LCD display begins to blink, the batteries must be replaced with a fresh set. When battery replacement is complete, reset the display data.

In low temperatures of -10°C or below, the LCD display may blink, even with new batteries, due to the inner resistance of the batteries. In this case, push the PRINT button **5** to stop the LCD's blinking. The batteries will recover their capacity when the temperature returns to normal.

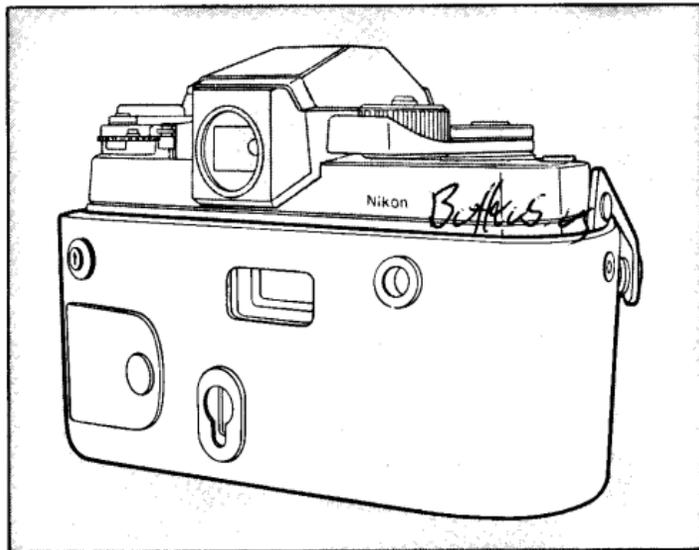
Note:

- 1) The MF-14 checks its own voltage every time data is imprinted. In low temperatures, the LCD might blink to alert you that voltage is temporarily low after data imprinting. This blinking will stop when you take the next shot and normal voltage is checked and confirmed.
- 2) The life span of the batteries for the MF-14 is approximately one year under conditions of normal use, e.g., 5 rolls of 36-exposure film per month or the equivalent, and with ASA/ISO setting at "L."
- 3) Do not use any other type of battery except the 1.55V SR-44 type silver-oxide cell.
- 4) When replacing the batteries, change both together. Changing only one shortens the life span of both batteries and may cause a malfunction.
- 5) Do not replace batteries in strong sunlight or bright illumination.
- 6) Do not dispose of batteries by burning. Also, for safety's sake, do not disassemble batteries when disposing.

ACCESSORIES

Camera Case Base Portion CF-23D

When used in place of the lower portion of the camera case of the Nikon F3/F3 High-Eyepoint camera, the CF-23D can hold either camera with the MF-14 attached. This case has "windows" that let you see the MF-14's display and operate the data back with the MODE, PRINT and ALARM buttons.



SPECIFICATIONS

Usable cameras:	Nikon F3, F3 High-Eyepoint	Alarm function:	Daily alarm is provided
Attachment method:	Used in place of regular camera back	Imprint signal:	Through camera body contact
Usable film speed settings:	ASA/ISO 100 ~ 400 for B&W films ASA/ISO 25 ~ 400 for color films	Data display:	By 7-segment, 6-digit LCD
Film speed adjustment:	3 position available by pushing the ASA/ISO film speed button	Power source:	Two 1.55V silver-oxide (SR-44 type) batteries
Data imprint type:	By 7-segment, 6-digit LED's; exposure time controlled by film speed selector	Battery life:	Approx. one year under conditions of normal use, e.g., 5 rolls of 36-exposure film per month or the equivalent and with ASA/ISO setting at "L"; built-in 24-hour type clock starts from 0:00, January 1, 1982, every time batteries are inserted.
Imprinted data:	Year/Month/Day, Day/Hour/Minute, Picture Counting or any number from -2 to 2000; automatically programmed until the year 2100 and adjusted for leap years	Clock:	Built-in, 24-hour type
Imprinted area:	Lower right-hand corner of picture frame	Timing accuracy:	Within ± 30 seconds a month (in normal temperatures)
Imprinted area size:	0.5mm(height) \times 6.6mm(width) when all 6 figures appear	Temperature:	-10°C ~ +40°C in use; -20°C ~ +55°C in storage
Data imprint decision:	By pushing the PRINT button	Usable motor drive:	Nikon Motor Drive MD-4
Data adjustment:	By pushing ADJUST button, year, month, day, hour, minute and picture counter are separately set	Dimensions (W \times H \times D):	Approx. 148.5mm \times 53.5mm \times 26mm
		Weight:	Approx. 85g (without batteries)